

DERWENT-ACC-NO: 1991-350933

DERWENT-WEEK: 199148

(abstracts only)

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TITLE: High strength aluminium alloy mfr. for tanks and rockets, etc. - by melting alloy comprising copper, magnesium, zinc titanium boron and vanadium etc. and then soln. treating

PATENT-ASSIGNEE: NKK CORP[NIKN]

PRIORITY-DATA: 1990JP-0032779 (February 14, 1990)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 03236441 A	October 22, 1991	N/A	000	N/A

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
JP 03236441A	N/A	1990JP-0032779	February 14, 1990

INT-CL (IPC): C22B009/16, C22C021/16 , C22F001/05

ABSTRACTED-PUB-NO: JP 03236441A

BASIC-ABSTRACT:

High strength Al alloy is made by melting an Al alloy comprising (by wt.) 3-5% Cu, 0.5-2% Mg, 1-3% Zn, 0.03-0.20% Ti, 0.001-0.006% B, one or more of 0.1-0.5% Mn, 0.005-0.20% V, 0.05-0.30% Zr, and 0.05-0.20% Cr, and balance Al and incidental impurities, soln. treating the Al alloy material at 480-540 deg.C, followed by one or more than one step ageing at 130-200 deg.C.

USE - Used for structural material, e.g., tanks, and rockets, excellent of weldability, and high strength.

CHOSEN-DRAWING: Dwg.0/3

TITLE-TERMS: HIGH STRENGTH ALUMINIUM ALLOY MANUFACTURE TANK ROCKET MELT ALLOY

COMPRISE COPPER MAGNESIUM ZINC TITANIUM BORON VANADIUM SOLUTION TREAT

DERWENT-CLASS: M26

CPI-CODES: M26-B09; M26-B09B; M26-B09C; M26-B09M; M26-B09T; M26-B09Z; M29-C;

PAT-NO: JP403236441A

DOCUMENT-IDENTIFIER: JP 03236441 A

TITLE: MANUFACTURE OF HIGH STRENGTH ALUMINUM ALLOY AND HIGH
STRENGTH ALUMINUM ALLOY MATERIAL

PUBN-DATE: October 22, 1991

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APPL-NO: JP02032779

APPL-DATE: February 14, 1990

INT-CL (IPC): C22C021/16, C22B009/16 , C22F001/057

ABSTRACT:

PURPOSE: To manufacture an Al alloy material excellent in weldability and strength by subjecting an Al alloy material having a specified compsn. to soln. treatment, thereafter cold-rolling this alloy material according to necessary and thereafter executing aging treatment in a specified temp. range.

CONSTITUTION: An Al alloy material contg., by weight, 3 to 5% Cu, 0.5 to 2.0% Mg, 1 to 3% Zn, 0.03 to 0.20% Ti and 0.001 to 0.006% B, or furthermore contg. one or two kinds selected from 0.1 to 0.5% Mn, 0.05 to 0.20% V, 0.05 to 0.30% Zr and 0.05 to 0.20% Cr and the balance 4 is rolled and is thereafter subjected to soln. treatment at 480 to 540°C. This alloy material is cold-rolled at ≥8% cold draft according to necessary to form its structure into a uniformly fine one and is thereafter subjected to aging treatment of one or ≥ two stages in the temp. range of 130 to 200°C, by which the Al alloy material excellent in weldability and strength can be manufactured.

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